# RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: _10/615,383A_

Source: _1FW/6_

Date Processed by STIC: _8/21/06_

# *ENTERED*

IFW16

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    5 <110> APPLICANT: FOSTER, Timothy
    7 <120> TITLE OF INVENTION: POLYPEPTIDES AND POLYNUCLEOTIDES FROM COAGULASE-NEGATIVE
STAPHYLOCOCCI
    9 <130> FILE REFERENCE: P06335US03/BAS
   11 <140> CURRENT APPLICATION NUMBER: 10/615,383A
   12 <141> CURRENT FILING DATE: 2003-07-09
   14 <150> PRIOR APPLICATION NUMBER: 09/386,962
   15 <151> PRIOR FILING DATE: 1999-08-31
   17 <150> PRIOR APPLICATION NUMBER: 60/098,443
   18 <151> PRIOR FILING DATE: 1998-08-31
   20 <150> PRIOR APPLICATION NUMBER: 60/117,119
   21 <151> PRIOR FILING DATE: 1999-01-25
   23 <160> NUMBER OF SEQ ID NOS: 40
   25 <170> SOFTWARE: PatentIn version 3.1
   27 <210> SEQ ID NO: 1
   28 <211> LENGTH: 5406
   29 <212> TYPE: DNA
   30 <213> ORGANISM: Staphylococcus epidermidis
   32 <220> FEATURE:
   33 <221> NAME/KEY: CDS
   34 <222> LOCATION: (1)..(5406)
   35 <223> OTHER INFORMATION:
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   38 tat tgg ata aat tat gct tat aaa gta ttt aca taa aaa tgt aaa tgc        48
   39 Tyr Trp Ile Asn Tyr Ala Tyr Lys Val Phe Thr     Lys Cys Lys Cys
   40 1               5                   10                      15
   42 aat tta caa gta aat att caa att att tcc ttg taa aat att tat ttt        96
   43 Asn Leu Gln Val Asn Ile Gln Ile Ile Ser Leu     Asn Ile Tyr Phe
   44                 20                  25                      30
   46 aac tgg agg tat agt atg aaa aag aga aga caa gga cca att aac aag       144
   47 Asn Trp Arg Tyr Ser Met Lys Lys Arg Arg Gln Gly Pro Ile Asn Lys
   48                 35                  40                      45
   50 aga gtg gat ttt cta tcc aac aag gta aac aag tac tcg att agg aag       192
   51 Arg Val Asp Phe Leu Ser Asn Lys Val Asn Lys Tyr Ser Ile Arg Lys
   52                 50                  55                  60
   54 ttc aca gta ggt aca gct tca ata ctc gtg ggt gct acg tta atg ttt       240
   55 Phe Thr Val Gly Thr Ala Ser Ile Leu Val Gly Ala Thr Leu Met Phe
   56             65                  70                  75
   58 ggt gcc gca gac aat gag gct aaa gcg gct gaa gac aat caa tta gaa       288
   59 Gly Ala Ala Asp Asn Glu Ala Lys Ala Ala Glu Asp Asn Gln Leu Glu
   60         80                  85                  90
   62 tca gct tca aaa gaa gaa cag aaa ggt agt cgt gat aat gaa aac tca       336
   63 Ser Ala Ser Lys Glu Glu Gln Lys Gly Ser Arg Asp Asn Glu Asn Ser
   64 95                  100                 105                 110
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RAW SEQUENCE LISTING                    DATE: 08/21/2006
PATENT APPLICATION:  US/10/615,383A     TIME: 11:35:13

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Output Set: N:\CRF4\08212006\J615383A.raw

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66 aaa ctt aat caa gtc gat tta gac aac gga tca cat agt tct gag aaa      384
67 Lys Leu Asn Gln Val Asp Leu Asp Asn Gly Ser His Ser Ser Glu Lys
68                 115                 120                 125
70 aca aca aat gta aac aat gca act gaa gta aaa aaa gtt gaa gca cca      432
71 Thr Thr Asn Val Asn Asn Ala Thr Glu Val Lys Lys Val Glu Ala Pro
72                 130                 135                 140
74 acg aca agt gac gta tct aag cct aaa gct aat gaa gca gta gtg acg      480
75 Thr Thr Ser Asp Val Ser Lys Pro Lys Ala Asn Glu Ala Val Val Thr
76                 145                 150                 155
78 aat gag tca act aaa cca aaa aca aca gaa gca cca act gtt aat gag      528
79 Asn Glu Ser Thr Lys Pro Lys Thr Thr Glu Ala Pro Thr Val Asn Glu
80         160                 165                 170
82 gaa tca ata gct gaa aca ccc aaa acc tca act aca caa caa gat tcg      576
83 Glu Ser Ile Ala Glu Thr Pro Lys Thr Ser Thr Thr Gln Gln Asp Ser
84 175                 180                 185                 190
86 act gag aag aat aat cca tct tta aaa gat aat tta aat tca tcc tca      624
87 Thr Glu Lys Asn Asn Pro Ser Leu Lys Asp Asn Leu Asn Ser Ser Ser
88                 195                 200                 205
90 acg aca tct aaa gaa agt aaa aca gac gaa cat tct act aag caa gct      672
91 Thr Thr Ser Lys Glu Ser Lys Thr Asp Glu His Ser Thr Lys Gln Ala
92                 210                 215                 220
94 caa atg tct act aat aaa tca aat tta gac aca aat gac tct cca act      720
95 Gln Met Ser Thr Asn Lys Ser Asn Leu Asp Thr Asn Asp Ser Pro Thr
96                 225                 230                 235
98 caa agt gag aaa act tca tca caa gca aat aac gac agt aca gat aat      768
99 Gln Ser Glu Lys Thr Ser Ser Gln Ala Asn Asn Asp Ser Thr Asp Asn
100        240                 245                 250
102 cag tca gca cct tct aaa caa tta gat tca aaa cca tca gaa caa aaa     816
103 Gln Ser Ala Pro Ser Lys Gln Leu Asp Ser Lys Pro Ser Glu Gln Lys
104 255                 260                 265                 270
106 gta tat aaa aca aaa ttt aat gat gaa cct act caa gat gtt gaa cac     864
107 Val Tyr Lys Thr Lys Phe Asn Asp Glu Pro Thr Gln Asp Val Glu His
108                 275                 280                 285
110 acg aca act aaa tta aaa aca cct tct gtt tca aca gat agt tca gtc     912
111 Thr Thr Thr Lys Leu Lys Thr Pro Ser Val Ser Thr Asp Ser Ser Val
112                 290                 295                 300
114 aat gat aag caa gat tac aca cga agt gct gta gct agt tta ggt gtt     960
115 Asn Asp Lys Gln Asp Tyr Thr Arg Ser Ala Val Ala Ser Leu Gly Val
116                 305                 310                 315
118 gat tct aat gaa aca gaa gca att aca aat gca gtt aga gac aat tta     1008
119 Asp Ser Asn Glu Thr Glu Ala Ile Thr Asn Ala Val Arg Asp Asn Leu
120         320                 325                 330
122 gat tta aaa gct gca tct aga gaa caa atc aat gaa gca atc att gct     1056
123 Asp Leu Lys Ala Ala Ser Arg Glu Gln Ile Asn Glu Ala Ile Ile Ala
124 335                 340                 345                 350
126 gaa gca cta aaa aaa gac ttt tct aac cct gat tat ggt gtc gat acg     1104
127 Glu Ala Leu Lys Lys Asp Phe Ser Asn Pro Asp Tyr Gly Val Asp Thr
128                 355                 360                 365
130 cca tta gct cta aac aga tct caa tca aaa aat tca cca cat aag agt     1152
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Input Set : A:\Sequence_10-615,383.txt
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131 Pro Leu Ala Leu Asn Arg Ser Gln Ser Lys Asn Ser Pro His Lys Ser
132             370             375             380
134 gca agt cca cgc atg aat tta atg agt tta gct gct gag cct aat agt      1200
135 Ala Ser Pro Arg Met Asn Leu Met Ser Leu Ala Ala Glu Pro Asn Ser
136         385             390             395
138 ggt aaa aat gtg aat gat aaa gtt aaa atc aca aac cct acg ctt tca      1248
139 Gly Lys Asn Val Asn Asp Lys Val Lys Ile Thr Asn Pro Thr Leu Ser
140     400             405             410
142 ctt aat aag agt aat aat cac gct aat aac gta ata tgg cca aca agt      1296
143 Leu Asn Lys Ser Asn Asn His Ala Asn Asn Val Ile Trp Pro Thr Ser
144 415             420             425             430
146 aac gaa caa ttt aat tta aaa gca aat tat gaa tta gat gac agc ata      1344
147 Asn Glu Gln Phe Asn Leu Lys Ala Asn Tyr Glu Leu Asp Asp Ser Ile
148             435             440             445
150 aaa gag gga gat act ttt act att aag tat ggt cag tat att aga ccg      1392
151 Lys Glu Gly Asp Thr Phe Thr Ile Lys Tyr Gly Gln Tyr Ile Arg Pro
152         450             455             460
154 ggt ggt tta gaa ctt cct gca ata aaa act caa cta cgt agt aag gat      1440
155 Gly Gly Leu Glu Leu Pro Ala Ile Lys Thr Gln Leu Arg Ser Lys Asp
156         465             470             475
158 ggc tct att gta gct aat ggt gta tat gat aaa act aca aat acg acg      1488
159 Gly Ser Ile Val Ala Asn Gly Val Tyr Asp Lys Thr Thr Asn Thr Thr
160     480             485             490
162 act tat aca ttt act aac tat gtt gat caa tat caa aat att aca ggt      1536
163 Thr Tyr Thr Phe Thr Asn Tyr Val Asp Gln Tyr Gln Asn Ile Thr Gly
164 495             500             505             510
166 agt ttt gat tta att gcg acg cct aag agg gaa aca gca att aag gat      1584
167 Ser Phe Asp Leu Ile Ala Thr Pro Lys Arg Glu Thr Ala Ile Lys Asp
168             515             520             525
170 aat cag aat tat cct atg gaa gtg acg att gct aac gaa gta gtc aaa      1632
171 Asn Gln Asn Tyr Pro Met Glu Val Thr Ile Ala Asn Glu Val Val Lys
172         530             535             540
174 aaa gac ttc att gtg gat tat ggt aat aaa aag gac aat aca act aca      1680
175 Lys Asp Phe Ile Val Asp Tyr Gly Asn Lys Lys Asp Asn Thr Thr Thr
176         545             550             555
178 gca gcg gta gca aat gtg gat aat gta aat aat aaa cat aac gaa gtt      1728
179 Ala Ala Val Ala Asn Val Asp Asn Val Asn Asn Lys His Asn Glu Val
180     560             565             570
182 gtt tat cta aac caa aat aac caa aac cct aaa tat gct aaa tat ttc      1776
183 Val Tyr Leu Asn Gln Asn Asn Gln Asn Pro Lys Tyr Ala Lys Tyr Phe
184 575             580             585             590
186 tca aca gta aaa aat ggt gaa ttt ata cca ggt gaa gtg aaa gtt tac      1824
187 Ser Thr Val Lys Asn Gly Glu Phe Ile Pro Gly Glu Val Lys Val Tyr
188             595             600             605
190 gaa gtg acg gat acc aat gcg atg gta gat agc ttc aat cct gat tta      1872
191 Glu Val Thr Asp Thr Asn Ala Met Val Asp Ser Phe Asn Pro Asp Leu
192         610             615             620
194 aat agt tct aat gta aaa gat gtg aca agt caa ttt gca cct aaa gta      1920
195 Asn Ser Ser Asn Val Lys Asp Val Thr Ser Gln Phe Ala Pro Lys Val
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196          625                    630                    635
198 agt gca gat ggt act aga gtt gat atc aat ttt gct aga agt atg gca       1968
199 Ser Ala Asp Gly Thr Arg Val Asp Ile Asn Phe Ala Arg Ser Met Ala
200          640                    645                    650
202 aat ggt aaa aag tat att gta act caa gca gtg aga cca acg gga act       2016
203 Asn Gly Lys Lys Tyr Ile Val Thr Gln Ala Val Arg Pro Thr Gly Thr
204 655                    660                    665                    670
206 gga aat gtt tat acc gaa tat tgg tta aca aga gat ggt act acc aat       2064
207 Gly Asn Val Tyr Thr Glu Tyr Trp Leu Thr Arg Asp Gly Thr Thr Asn
208                    675                    680                    685
210 aca aat gat ttt tac cgt gga acg aag tct aca acg gtg act tat ctc       2112
211 Thr Asn Asp Phe Tyr Arg Gly Thr Lys Ser Thr Thr Val Thr Tyr Leu
212          690                    695                    700
214 aat ggt tct tca aca gca cag ggg gat aat cct aca tat agt cta ggt       2160
215 Asn Gly Ser Ser Thr Ala Gln Gly Asp Asn Pro Thr Tyr Ser Leu Gly
216          705                    710                    715
218 gac tat gta tgg tta gat aaa aat aaa aac ggt gtt caa gat gat gat       2208
219 Asp Tyr Val Trp Leu Asp Lys Asn Lys Asn Gly Val Gln Asp Asp Asp
220          720                    725                    730
222 gag aaa ggt tta gca ggt gtt tat gtt act ctt aaa gac agt aac aat       2256
223 Glu Lys Gly Leu Ala Gly Val Tyr Val Thr Leu Lys Asp Ser Asn Asn
224 735                    740                    745                    750
226 aga gaa tta caa cgt gta act act gat caa tct gga cat tat caa ttt       2304
227 Arg Glu Leu Gln Arg Val Thr Thr Asp Gln Ser Gly His Tyr Gln Phe
228                    755                    760                    765
230 gat aat tta caa aat gga acg tac aca gtc gag ttt gcg att cct gat       2352
231 Asp Asn Leu Gln Asn Gly Thr Tyr Thr Val Glu Phe Ala Ile Pro Asp
232          770                    775                    780
234 aat tat acg cca tct ccc gca aat aat tct aca aat gat gca ata gat       2400
235 Asn Tyr Thr Pro Ser Pro Ala Asn Asn Ser Thr Asn Asp Ala Ile Asp
236          785                    790                    795
238 tca gat ggt gaa cgt gat ggt aca cgt aaa gta gtt gtt gcc aaa gga       2448
239 Ser Asp Gly Glu Arg Asp Gly Thr Arg Lys Val Val Val Ala Lys Gly
240          800                    805                    810
242 aca att aat aat gct gat aat atg act gta gat act ggc ttt tat tta       2496
243 Thr Ile Asn Asn Ala Asp Asn Met Thr Val Asp Thr Gly Phe Tyr Leu
244 815                    820                    825                    830
246 act cct aaa tac aat gtc gga gat tat gta tgg gaa gat aca aat aaa       2544
247 Thr Pro Lys Tyr Asn Val Gly Asp Tyr Val Trp Glu Asp Thr Asn Lys
248                    835                    840                    845
250 gat ggt atc caa gat gac aat gaa aaa gga att tct ggt gtt aaa gta       2592
251 Asp Gly Ile Gln Asp Asp Asn Glu Lys Gly Ile Ser Gly Val Lys Val
252                    850                    855                    860
254 acg tta aaa aat aaa aat gga gat act att ggc aca acg aca aca gat       2640
255 Thr Leu Lys Asn Lys Asn Gly Asp Thr Ile Gly Thr Thr Thr Thr Asp
256          865                    870                    875
258 tca aat ggt aaa tat gaa ttc aca ggt tta gag aac ggg gat tac aca       2688
259 Ser Asn Gly Lys Tyr Glu Phe Thr Gly Leu Glu Asn Gly Asp Tyr Thr
260          880                    885                    890
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Input Set : **A:\Sequence_10-615,383.txt**
Output Set: **N:\CRF4\08212006\J615383A.raw**

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262 ata gaa ttt gag acg ccg gaa ggc tac aca ccg act aaa caa aac tcg      2736
263 Ile Glu Phe Glu Thr Pro Glu Gly Tyr Thr Pro Thr Lys Gln Asn Ser
264 895                 900                 905                 910
266 gga agt gac gaa ggt aaa gat tca aac ggt acg aaa aca aca gtc aca      2784
267 Gly Ser Asp Glu Gly Lys Asp Ser Asn Gly Thr Lys Thr Thr Val Thr
268                 915                 920                 925
270 gtc aaa gat gca gat aat aaa aca ata gac tca ggt ttc tac aag cca      2832
271 Val Lys Asp Ala Asp Asn Lys Thr Ile Asp Ser Gly Phe Tyr Lys Pro
272                 930                 935                 940
274 aca tat aac tta ggt gac tat gta tgg gaa gat aca aat aaa gat ggt      2880
275 Thr Tyr Asn Leu Gly Asp Tyr Val Trp Glu Asp Thr Asn Lys Asp Gly
276             945                 950                 955
278 att caa gac gac agt gaa aaa ggg att tct ggg gtt aaa gtg acg tta      2928
279 Ile Gln Asp Asp Ser Glu Lys Gly Ile Ser Gly Val Lys Val Thr Leu
280         960                 965                 970
282 aaa gat aaa aat gga aat gcc att ggg aca acg aca aca gac gca agt      2976
283 Lys Asp Lys Asn Gly Asn Ala Ile Gly Thr Thr Thr Thr Asp Ala Ser
284 975                 980                 985                 990
286 ggt cat tat caa ttt aaa gga tta gaa aat  gga agc tac aca gtt  gag   3024
287 Gly His Tyr Gln Phe Lys Gly Leu Glu Asn  Gly Ser Tyr Thr Val  Glu
288             995                 1000                1005
290 ttt gag aca cca  tca ggt tat aca ccg  aca aaa gcg aat tca  ggt      3069
291 Phe Glu Thr Pro  Ser Gly Tyr Thr Pro  Thr Lys Ala Asn Ser  Gly
292             1010                1015                1020
294 caa gat ata act  gta gat tcc aac ggt  ata aca aca aca ggt  atc      3114
295 Gln Asp Ile Thr  Val Asp Ser Asn Gly  Ile Thr Thr Thr Gly  Ile
296             1025                1030                1035
298 att aac gga gct  gat aat ctc aca att  gat agt ggt ttc tac  aaa      3159
299 Ile Asn Gly Ala  Asp Asn Leu Thr Ile  Asp Ser Gly Phe Tyr  Lys
300             1040                1045                1050
302 aca cca aaa tat  agt gtc gga gat tat  gta tgg gaa gat aca  aat      3204
303 Thr Pro Lys Tyr  Ser Val Gly Asp Tyr  Val Trp Glu Asp Thr  Asn
304             1055                1060                1065
306 aaa gat ggt atc  caa gat gac aat gaa  aag gga att tct ggt  gtt      3249
307 Lys Asp Gly Ile  Gln Asp Asp Asn Glu  Lys Gly Ile Ser Gly  Val
308             1070                1075                1080
310 aaa gta acg tta  aag gat gaa aaa gga  aat ata att agc act  aca      3294
311 Lys Val Thr Leu  Lys Asp Glu Lys Gly  Asn Ile Ile Ser Thr  Thr
312             1085                1090                1095
314 aca act gat gaa  aat ggg aag tat caa  ttt gat aat tta gat  agt      3339
315 Thr Thr Asp Glu  Asn Gly Lys Tyr Gln  Phe Asp Asn Leu Asp  Ser
316             1100                1105                1110
318 ggt aat tac att  att cat ttt gag aaa  ccg gaa ggc atg act  caa      3384
319 Gly Asn Tyr Ile  Ile His Phe Glu Lys  Pro Glu Gly Met Thr  Gln
320             1115                1120                1125
322 act aca gca aat  tct gga aat gat gat  gaa aaa gat gct gat  ggg      3429
323 Thr Thr Ala Asn  Ser Gly Asn Asp Asp  Glu Lys Asp Ala Asp  Gly
324             1130                1135                1140
326 gaa gat gtt cgt  gtt acg att act gat  cat gat gac ttt agt  ata      3474
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RAW SEQUENCE LISTING ERROR SUMMARY     DATE: 08/21/2006
PATENT APPLICATION:   US/10/615,383A     TIME: 11:35:14

Input Set : A:\Sequence_10-615,383.txt
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Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:15; N Pos. 6,12
Seq#:17; Xaa Pos. 3

**VERIFICATION SUMMARY**                          DATE: 08/21/2006
PATENT APPLICATION:  US/10/615,383A         TIME: 11:35:14

Input Set : **A:\Sequence_10-615,383.txt**
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L:37 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:35
L:903 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:7,Line#:901
L:1452 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:13,Line#:1450
L:1725 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:1751 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0